

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number ST01989NY-D

This certificate, issued to Delta Engineering
13 DRBA Way
New Castle County Airport
New Castle, Delaware 19720

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product Type Certificate Number: A22WE
Make: McDonnell Douglas
Model: MD-10() and MD-11()

Description of Type Design Change:

Installation of Transponders with ELS/EHS and ADS-B in accordance with Delta Engineering Master Data List 0125-05625-2097 Revision B dated Nov. 26, 2007 or later DAS approved.

Limitations and Conditions:

1. The aircraft must be maintained in accordance with Delta Engineering Instructions for Continued Airworthiness, Document 0725-05631-2097 Revision A dated Jun. 4, 2007.
2. Delta Engineering Airplane Flight Manual Supplement is required for this installation document number 0625-05630-2097 Revision A dated Mar. 27, 2007
3. If the holder agrees to permit another person to use the certificate to alter the product, the holder shall give the other person written evidence of that permission.
4. The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: November 9, 2005

Date reissued:

Date of issuance: March 17, 2006

Date amended: November 27, 2007



By direction of the Administrator

John A. Moritz
John A. Moritz
DAS Administrator
Delta Engineering, DAS-800728-NE
(Title)

Any Alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number ST01989NY-D

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the McDonnell Douglas MD-10() and MD-11() Series with this STC is as follows:

- a. The type certification basis for McDonnell Douglas MD-10() and MD-11() Series airplanes is shown on TCDS A22WE for parts **not changed or not affected** by the change.
- b. The certification basis for parts **changed or affected** by the change since the reference date of application, May 9, 2007 is based upon part 25 as amended by Amendment 25-119. Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be as shown on the TCDS A22WE except the regulations listed below:

Section	Title	At Amendment
§25.831	Ventilation	25-89
§25.869	Fire protection: systems	25-113
§25.981	Fuel Tank Prevention	25-102
§25.1307	Miscellaneous equipment	25-72
§25.1309	Equipment, systems and installation	25-41
§25.1351	General	25-72
§25.1353	Electrical equipment and installations	25-113
§25.1431	Electronic Equipment	25-113

-----END-----

Any Alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.